



MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-OOS-4)

JUN 08 1982

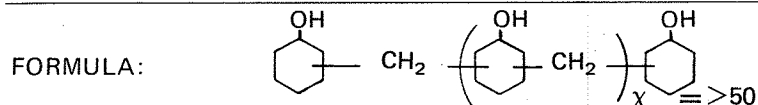


CHEMICAL NAME: BAKELITE® PHENOLIC "MICROBALLOONS"

DM 5 1630

SYNONYMS: BJO-0840, BJO-0930, BJO-0931

CHEMICAL FAMILY: Phenolic Resins
(One-step Cured Phenolic)



MOLECULAR WEIGHT: >10,000

TRADE NAME AND SYNONYMS: BAKELITE Phenolic "Microballoons"

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not applicable	FREEZING POINT	Not applicable
SPECIFIC GRAVITY (H ₂ O = 1)	1.20 at 25/25°C.	VAPOR PRESSURE AT 20°C.	Not applicable
VAPOR DENSITY (air = 1)	Not applicable	SOLUBILITY IN WATER, % by wt. at 25°C.	<1
PER CENT VOLATILES BY VOLUME	0	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable
APPEARANCE AND ODOR	Brownish powder with characteristic phenolic odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	Not applicable	AUTOIGNITION TEMPERATURE	None (ASTM D 1929)		
FLAMMABLE LIMITS IN AIR, % by volume		LOWER	Not applicable	UPPER	Not applicable
EXTINGUISHING MEDIA	Not applicable				
SPECIAL FIRE FIGHTING PROCEDURES	Not applicable				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Not applicable				

EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212/551-4785
Dr. K. S. Lane, 212/551-4787
C. P. Carpenter, Ph.D., 421/327-1020 } or 212/551-2345; 304/744-3487
(nights, weekends and holidays)

While Union Carbide Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Carbide Corporation assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not yet established
EFFECTS OF OVEREXPOSURE	None expected
EMERGENCY AND FIRST AID PROCEDURES	None required

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)		None	
HAZARDOUS DECOMPOSITION PRODUCTS		Thermal decomposition may produce carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will not Occur		
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VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Physically remove with a shovel.
WASTE DISPOSAL METHOD	Bury in a landfill.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		Dust respirator	
VENTILATION	LOCAL EXHAUST	Preferred	SPECIAL --
	MECHANICAL (general)	Acceptable	OTHER --
PROTECTIVE GLOVES		Plastic	EYE PROTECTION Monogoggles
OTHER PROTECTIVE EQUIPMENT		Eye bath and safety shower	

VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	BAKELITE® PHENOLIC "MICROBALLOONS"
	On the basis of the toxicological, physical, and chemical properties of BAKELITE Phenolic "Microballoons," precautionary labeling used on the containers is as follows: FOR INDUSTRY USE ONLY
OTHER HANDLING AND STORAGE CONDITIONS	--